

UMASS/AMHERST



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# 1987

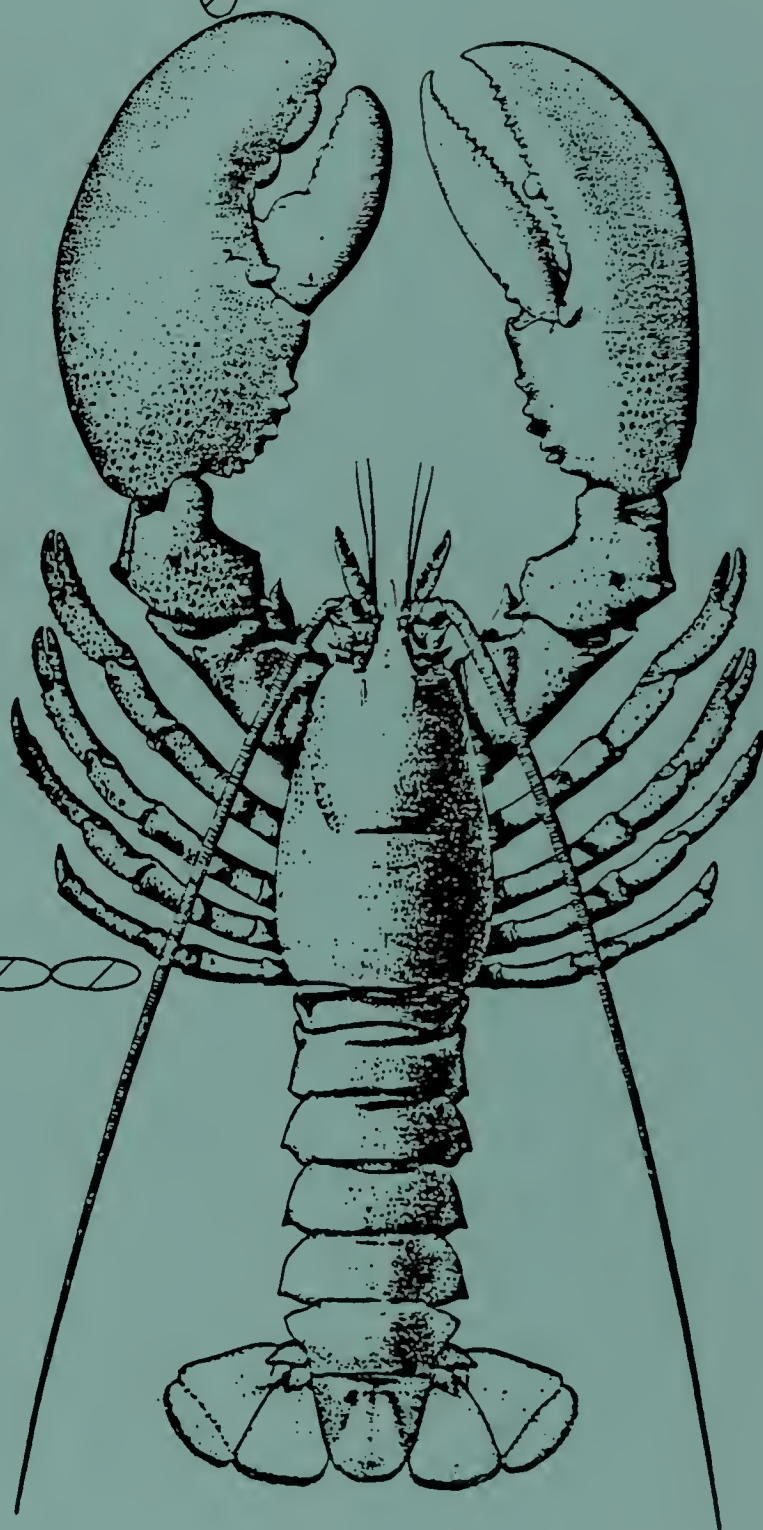
## Massachusetts Lobster Fishery Statistics

GOVERNMENT DOCUMENT  
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MASSACHUSETTS  
DIVISION OF MARINE FISHERIES



1987  
Massachusetts  
Lobster Fishery  
Statistics

by  
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Technical Series 22

A contribution of  
Commercial Fisheries Research and Development  
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The Commonwealth of Massachusetts  
Executive Office of Environmental Affairs  
James S. Hoyte, Secretary  
Department of Fisheries, Wildlife and Environmental Law Enforcement  
Walter E. Bickford, Commissioner  
Division of Marine Fisheries  
Philip G. Coates, Director

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Addendum: 1987 Massachusetts Recreational Lobster Fishery; License Status and Harvest Information

License Type: -----	Diver -----	Diver/Pot -----	Potman -----	Method Unknown -----	Total -----	Percent -----
1) Number of Licenses Issued in 1987	4,542	3,307	4,209	1	12,059	
2) Number That Reported	3,291	2,579	3,224	1	9,095	75.42%
a) Total Number That Fished	2,888	2,200	2,780	1	7,869	65.25%
b) Total Number That Did Not Fish	403	379	444	0	1,226	10.17%
3) Number That Did Not Report	1,251	728	985	0	2,964	24.58%
4) Number of Lobsters Reported Landed	54,204	83,672	169,017	64	306,957	
Pounds of Lobsters (Calculated)*	63,961	98,733	199,440	76	362,209	-8.54% change from 1986

\* Based on 1.18 Pounds per Lobster.





## INTRODUCTION

The commercial lobster fishery of Massachusetts is, economically, the most important fishery conducted within the territorial waters of the Commonwealth. The overall economic importance of the fishery both in New England and, in recent years, the Mid-Atlantic states, has focused the attention of Federal, Regional and State fishery managers on this species. Initially, in an attempt to standardize management of the fishery, the Federal and State Governments developed an overall lobster fishery management plan under the auspices of the State-Federal Partnership Program. However, with the passage of the Fisheries Management and Conservation Act, the New England Fisheries Management Council, in cooperation with the Mid-Atlantic Council, has developed and implemented a management plan for the entire east coast lobster fishery. The basis and success of any such plan is an accurate statistical data base. The Commonwealth of Massachusetts, with joint funding from the National Marine Fisheries Service, has been collecting annual reports from licensed lobster fishermen for many years. Historically, the data collected was used primarily for descriptive and informational purposes, and occasionally for management. However, with the recent emphasis on Federal management, these data take on added importance in terms of providing the respective management agencies with adequate information to insure that the interests of Massachusetts' lobstermen are protected.

During the period 1975 - 1980, the number of coastal commercial lobster permits was limited, by law, to 1300, with an additional ten percent issued to proven hardship cases. In 1981, a statutory change provided for the establishment of a permanent waiting list from which 100 new permits were issued. In addition, 30 special additional permits were awarded to full time commercial fishermen who met certain criteria. In subsequent years 80 list permits and 20 special additional permits have been issued. Permits which are not renewed are retired.

This report is the twenty - first annual publication of data summarized from catch reports submitted by licensed lobster fishermen. Data were presented in a standardized format through 1979. In 1980, presentation was changed to reflect a more thorough collection and evaluation of the submitted information. This publication represents the second year in which data processing and evaluation were completely computerized. As a result new data, previously unobtainable due to the sheer weight of hand-generated computation, is now readily available. This publication perpetuates the existing time series, and expands upon areas not addressed in previous years. All data elements presented in previous reports are presented here, although they may not be in the same tabular format. This report does not, however, cover the scope of the Project's existing database and computational capability. Requests for expanded information should be made to the Division's Statistics Project.

This report has been prepared by personnel from the Division of Marine Fisheries Statistics and Data Processing Project, funded jointly by the Commonwealth and the National Marine Fisheries Service under the Commercial Fisheries Research and Development Act (Public Law 88-309). The preparation of this report would not have been possible without the cooperation of licensed lobstermen who provided the information on their annual reports. Special thanks go to Ann Spires for her organizational skills in checking, editing and filing the reports and for her virtually error-free data entry. A computer is useless unless it has data to work with and data entry is an extremely tedious task. Thanks also go to Gerald Nash for ad hoc program requests at even the busiest of times and to Charles Anderson for his continual help with system development and upgrades and suggestions concerning this publication.

## SOURCE OF DATA

No person may fish for or take lobsters in coastal waters or land lobsters in the Commonwealth without a permit issued by the Director of the Division of Marine Fisheries (Chapter 130, Mass. G.L., Section 38). Chapter 130, Mass. G.L., Section 33, requires any person so licensed to file an annual report of their catch by January 31 for the preceding calendar year. In 1980, a dual reporting system was established. Commercial lobstermen (coastal, offshore and seasonal(student)) received a detailed catch report form with their license renewal application. This report requests the following information: method of fishing; number and type of gear used; effort data (set-over days, number of trips per month, etc.); pounds of lobster taken; areas fished; principal ports of landing; and information relative to the vessels used in the fishery. Recreational fishermen are asked to report on their license renewal application form only the number of lobsters taken during the previous year. However, due to the fact that recreational licenses are not processed completely at the time of publication, an addendum will be published at a later date.

Each year 150 Coastal Lobstermen are selected and audited for the records used to complete the catch portion of their catch report. The Division does this to assess the amount of error involved in the reporting process. Selection is done randomly except when fishermen fail an audit. In these cases, they are audited again the following year. The audit was first instituted in 1977 for the 1976 catch reports. Over the last five years the lobstermen selected for audit reported landing 5,471,420 pounds. The audit of their records revealed a harvest of 5,527,517 pounds or a difference of 1.01%.

Project personnel sort, edit, tabulate and interpret data from all reports received. Data presented in this publication are based on catch reports actually received as of June 14, 1988, and are not expanded to represent all of the permits issued in 1987.

## EXPLANATION OF TABLES

All data presented in this publication are broken down into two basic categories: the first is "inshore" which represents data pertaining to all lobster activity taking place within 69 degrees West Longitude and 41 degrees North Latitude; the "offshore" category refers to all data outside those coordinates (Area 13 on Figure 5). This is not to be confused with the offshore license category which allows fishermen to harvest lobster outside the territorial waters line (3 miles from shore) only, a line that falls within the coordinates given above. Below is a brief definition of each license type:

**Coastal Commercial:** Allows the holder to harvest lobsters anywhere, most importantly inside territorial waters.

**Offshore Commercial:** Allows the holder to harvest lobsters outside territorial waters only.

**Seasonal Commercial:** Allows the holder, if he or she is a student to harvest lobsters anywhere but with a maximum of 25 traps and only during the months June - September.



**Non-commercial:** Allows the holder to harvest anywhere but with a maximum of only 10 traps and cannot sell catch.

Tables presenting number of fishermen, number of pots fished, number and value of boats used in the fishery and total landings statewide, by county and license type, and for each city and town were prepared using the catch reports submitted by commercial fishermen. In keeping with Division policy, some of the data are masked or combined to protect the confidentiality of the individual submitting the report. Data referring to the number of fishermen, number and value of gear, and number and value of boats are presented by the home port of the licensee filing the report. Pounds of lobsters harvested are presented by the port of landing reported by the fishermen. Up until two years ago, this information was broken down and presented in one table per county. This year all counties are combined in one table and include selected data elements. For example, Table 3 contains number of fishermen, pounds harvested and value of harvest for all counties both inshore and off. Although it requires a reduced format, it is felt this is more readable.

Vessel and SCUBA gear values were calculated on the basis of the fishermen's estimate of its present value and the percentage of its use specifically for lobstering. Average values were used when the information was omitted from an individual report. When fishermen reported the number of lobsters taken, rather than poundage, a conversion factor of 1.18 pounds per lobster was used to calculate poundage figures. This factor is based on historical data.

Where tables refer to county, the reader is referred to Figure 9. Fishing areas are delineated in Figure 5.

## 1987 HIGHLIGHTS

1. There were 14,852 lobster licenses of all types issued during 1987: 1,877 coastal commercial; 764 offshore commercial; 131 seasonal commercial and 12,080 non-commercial. As of June 14, 1988, a total of 245 licensed commercial lobstermen (9 percent) failed to file a catch report with the Division. Of the 2,527 commercial fishermen who reported, 737 or 27 percent claimed they did not fish for lobster during 1987. See Table 1 for a summary of the reporting status and Table 2 for a five year comparison.

2. A total of 13,384,566 pounds of lobsters were reported landed by commercial lobstermen. Based on a value of \$3.03 per pound<sup>1</sup>, the commercial catch was valued at \$40,555,235. See Table 3 for a breakdown by license type and county.

3. In total pounds of lobsters landed, Essex County ranked first, Plymouth County second and Suffolk County third. In total numbers of active commercial fishermen, Essex County ranked first with 732, Plymouth County second with 404 and Barnstable County third with 189. See Tables 3 and 6.

4. In the commercial fishery, pots were valued at \$14,929,200<sup>2</sup>, diving gear at \$39,265, and power and non-power boats at \$48,202,483 yielding a total gear value of \$63,170,948. Combined with the value of lobsters sold, \$40,555,235, gives a total fishery value of \$103,726,183.

5. Of the 13,384,566 pounds of lobsters landed commercially, 11,510,379 were reported taken inside of 69 degrees West and 41 degrees North (inshore), and of that number, 9,371,224 pounds were estimated to have been taken within the territorial waters of the Commonwealth.

6. Boston ranked first in number of pounds landed but second in number of active fishermen. Gloucester ranked first in number of fishermen but second in pounds landed. See Table 6 for a breakdown by town.

7. Inshore landings by commercial fishermen were concentrated during the months July through November when 82 percent of the yearly harvest was landed. This seasonal trend reflects mainly the efforts of coastal lobstermen who reported landing approximately 79 percent of the total commercial catch during that time period. See Figures 1 and 2 and Table 8 for a complete breakdown by month for each license type.

8. According to coastal lobstermen the greatest harvest of lobsters taken inside 69 degrees West and 41 degrees North was from the Boston Harbor area (Area 4) followed by the Beverly - Salem - Marblehead area (Area 3) and the Plymouth area (Area 5). See Figures 3 and 4 and Table 9 for a complete breakdown by area for each license type.

9. The average catch per trap haul for coastal lobstermen was 0.6304 pounds. For traps fished one set-over day the average was 0.3546; for those fished two days 0.5399; for three days 0.5647; and for four days 0.6060. See Figures 6 and 7 for catch effort information by month and area.

10. Last year the fishermen selected for audit reported landing 1,163,777 pounds of lobster on their 1986 catch reports. The audit of their actual records showed total landings of 1,141,762 pounds, a difference of 22,015 pounds or 1.89 percent. Random audit of the 1987 reports was taking place at time of publication.

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<sup>1</sup>Ex-vessel price determined by weighted averages of prices listed in the National Marine Fisheries Service "Blue Sheet."

<sup>2</sup>Based on an average value of \$32.50 per pot, including warp and buoys.



Table 1. 1987 Massachusetts Commercial Lobster Fishery  
Reporting Status of Lobster Licensees

Licenses Issued		
-----		
Coastal Commercial	(\$200)	1,877
Offshore Commercial	(\$200)	764
Seasonal (Student) Commercial	(\$ 50)	131
Non-Commercial	(\$ 30)	12,080
-----		
Total		14,852

Reporting Status						
-----						
Type	Not Reporting		Reported "Not Fishing"		Reported "Fishing"	
-----						
Coastal Commercial	34	2%	409	22%	1,434	76%
Offshore Commercial	154	20%	319	42%	291	38%
Seasonal Commercial	57	44%	9	7%	65	50%
-----						
Total	245	9%	737	27%	1,790	65%

Non-Commercial figures unavailable at time of printing.

Table 2. Massachusetts Commercial Lobster Fishery  
Selected Licensing Information, 1983 - 1987

	1983	1984	1985	1986	1987	% Change 1983-87
-----						
Coastal Licenses						
Issued	1,609	1,697	1,744	1,803	1,877	16.66
Percent Change		5.47	2.77	3.38	4.10	
Fished	1,312	1,353	1,368	1,418	1,434	9.30
Percent Change		3.13	1.11	3.65	1.13	
Did Not Fish	269	296	349	359	409	52.04
Percent Change		10.04	17.91	2.87	13.93	
Not Reporting	28	30	27	26	34	21.43
Percent Change		7.14	-10.00	-3.70	30.77	
% Not Reporting	2	2	2	1	2	
Offshore Licenses						
Issued	560	688	673	711	764	36.43
Percent Change		22.86	-2.18	5.65	7.45	
Fished	146	174	167	294	291	99.32
Percent Change		19.18	-4.02	76.05	-1.02	
Did Not Fish	297	355	347	270	319	7.41
Percent Change		19.53	-2.25	-22.19	18.15	
Not Reporting	120	159	159	147	161	34.17
Percent Change		32.50	0.00	-7.55	9.52	
% Not Reporting	21	23	24	21	21	
Seasonal Licenses						
Issued	267	227	188	171	131	-50.94
Percent Change		-14.98	-17.18	-9.04	-23.39	
Fished	132	116	108	88	60	-54.55
Percent Change		-12.12	-6.90	-18.52	-31.82	
Did Not Fish	18	19	15	13	9	-50.00
Percent Change		5.56	-21.05	-13.33	-30.77	
Not Reporting	117	92	65	70	63	-46.15
Percent Change		-21.37	-29.35	7.69	-10.00	
% Not Reporting	44	41	35	41	48	

Table 3. 1987 Massachusetts Commercial Lobster Fishery Statistics -- Number of Fishermen, Landings (Lbs.) and Value of Landings

AREA:		-----Inside 693W 413N (Areas 1-12)-----										-----Outside 693W 413N (Area 13)-----									
LICENSE TYPE:	Diver	COASTAL		SEASONAL		-----OFFSHORE-----		TOTAL		COASTAL		-----OFFSHORE-----		TOTAL		GRAND		TOTAL		TOTAL	
--COUNTY--		Potman	Both	Potman		Potman	Trawler			Potman		Potman	Trawler								
BARNSTABLE																					
Fishermen	3	127	8	6	5	27		176		3		4	6	13		189 *					
Pounds	5,673	632,230	45,306	773	180,751	50,269		915,002		90,454		532,974	32,715	656,143		1,571,145					
Value (\$)	17,189	1,915,657	137,277	2,342	547,676	152,315		2,772,456		274,076		1,614,911	99,126	1,988,113		4,760,569					
BRISTOL																					
Fishermen		78	3	5	6	16		108		4		6	49	59		167 *					
Pounds		508,389	2,794	708	44,612	30,078		586,581		193,874		471,997	98,097	763,968		1,350,549					
Value (\$)	0	1,540,419	8,466	2,145	135,174	91,136		1,777,340		587,438		1,430,151	297,234	2,314,823		4,092,163					
DUKES																					
Fishermen		26		165	4			30		8,833				8,833		33 *					
Pounds		117,885		500	26,759	2,892		147,701		26,764		0	0	26,764		156,534					
Value (\$)	0	357,192	0		81,080	8,763		447,534								474,298					
ESSEX																					
Fishermen		609	10	23	3	69		714		8,841		136,377	20,792	15		732 *					
Pounds	340	4,726,155	59,594	6,178	1,526	98,139		4,891,932		26,788		413,222	63,000	166,010		5,057,942					
Value (\$)	1,030	14,320,250	180,570	18,719	4,624	297,361		14,822,554						503,010		15,325,564					
NANTUCKET																					
Fishermen		5						5						0		6 *					
Pounds		44,039				1,424		45,463					124	124		45,587					
Value (\$)	0	133,438	0	0	0	4,315		137,753		0		0	376	376		138,129					
NORFOLK																					
Fishermen		70	3	3				76						0		78 *					
Pounds		720,928	4,799	644	50	10		726,431						0		726,431					
Value (\$)	0	2,184,412	14,541	1,951	152	30		2,201,086		0		0	0	0		2,201,086					
PLYMOUTH																					
Fishermen		338	12	22	11	17		400						0		404 *					
Pounds	1,820	2,405,854	46,875	5,902	26,965	36,934		2,524,350				157,806	270	158,076		2,682,426					
Value (\$)	5,515	7,289,738	142,031	17,883	81,704	111,910		7,648,780		0		478,152	818	478,970		8,127,751					
SUFFOLK																					
Fishermen		127		4		17		148						17		169 *					
Pounds	17,517	1,613,099	18,125	912	1,026	22,240		1,672,919		85,700			35,333	121,033		1,793,952					
Value (\$)	53,077	4,887,690	54,919	2,763	3,109	67,387		5,068,945		259,671		0	107,059	366,730		4,502,820					
STATE TOTAL *																					
Fishermen	7	1,380	37	65	31	149		1,669		8		14	87	109		1,778 *					
Pounds	25,350	10,768,579	177,493	15,282	281,689	241,986		11,510,379		387,702		1,299,154	187,331	1,874,187		13,384,566					
Value (\$)	76,811	32,628,794	537,804	46,304	853,518	733,218		34,876,448		1,174,737		3,936,437	567,613	5,678,787		40,555,235					
OUT OF STATE																					
Fishermen								4						4		12 *					
Pounds		12,856				4,800		17,656		23,424		135,054		158,478		176,134					
Value (\$)	0	38,954	0	0	0	14,544		53,498		70,975		409,214	0	480,188		533,686					

\* Row and column totals may not equal the sum of the rows or columns due to masking of the data.  
Average Price per Pound Calculated as \$3.03 from NMFS "Blue Sheets".

Table 4. 1987 Massachusetts Commercial Lobster Fishery Statistics -- Number of Boats and Pots Fished

AREA:	-----Inside 69°W 41°N (Areas 1-12)-----										-----Outside 69°W 41°N (Area 13)-----		
LICENSE TYPE:	Diver	COASTAL	Both	SEASONAL	-----OFFSHORE-----		TOTAL	COASTAL	-----OFFSHORE-----		TOTAL	GRAND TOTAL	
		Potman		Potman	Potman	Trawler		Potman	Potman	Trawler			
---COUNTY---													
BARNSTABLE													
Pots Fished		29,715	1,447	116	1,405	27	32,683	2,110	11,100	6	13,210	45,893	
Power Boat	4	126	8	6	5		176	3	4		13	189	
Non Power Boat							0				0	0	
BRISTOL													
Pots Fished		21,138	255	113	1,976	16	23,482	3,432	6,564	49	9,996	33,478	
Power Boat		76	3	5	6		106	4	6		59	165	
Non Power Boat							0				0	0	
DUKES													
Pots Fished		3,843		34	814	1	4,691	263			263	4,954	
Power Boat		27		2	4		34				0	34	
Non Power Boat							0				0	0	
ESSEX													
Pots Fished		173,803	2,596	515	180		177,094	3,473	1,400	15	4,873	181,967	
Power Boat	1	602	12	21	3	69	708	2	1		18	726	
Non Power Boat		6	1				7				0	7	
NANTUCKET													
Pots Fished		1,276				1	1,276				0	1,276	
Power Boat		5					6				0	6	
Non Power Boat							0				0	0	
NORFOLK													
Pots Fished		23,585	245	70	10		23,910				0	23,910	
Power Boat		70	3	3	1	1	78				0	78	
Non Power Boat		1					1				0	1	
PLYMOUTH													
Pots Fished		100,692	2,989	454	2,599	17	106,734		2,700		2,700	109,434	
Power Boat	2	345	12	20	11		407		2		2	409	
Non Power Boat		4	1				5				0	5	
SUFFOLK													
Pots Fished		56,488	375	85	200		57,148		1,300	17	1,300	58,448	
Power Boat	1	126	1	4	1	17	150		1		18	168	
Non Power Boat											0	0	
STATE TOTAL													
Pots Fished	0	410,540	7,907	1,387	7,184	0	427,018	9,278	23,064	0	32,342	459,360	
Power Boat	8	1,377	39	61	31	149	1,665	9	14	87	110	1,775	
Non Power Boat	0	11	2	0	0	0	13	0	0	0	0	13	
OUT OF STATE													
Pots Fished		250				4	250	1,500	6,200	4	7,700	7,950	
Power Boat		1					5	1	2		7	12	
Non Power Boat													



Table 5. 1987 Massachusetts Commercial Lobster Fishery Statistics -- Value of Diving Gear and Fishing Vessels

AREA:		-----Inside 69°W 41°N (Areas 1-12)-----				-----Outside 69°W 41°N (Area 13)-----			
LICENSE TYPE:	Diver	COASTAL	Both	SEASONAL	Potman	OFFSHORE	Potman	OFFSHORE	TOTAL
--COUNTY--		Potman		Trawler		Trawler		Trawler	
BARNSTABLE									
Diving Gear	4,000		6,962						10,962
Power Boat	27,300	2,580,287	90,250	26,825	515,200	150,200	94,730	2,321,730	5,711,792
Non Power Boat									0
BRISTOL									
Diving Gear			5,700						5,700
Power Boat		2,268,550	15,900	7,600	199,300	149,177	1,190,534	3,305,534	5,946,061
Non Power Boat									0
DUKES									
Diving Gear									0
Power Boat		605,300		1,200	136,250	40,000			782,750
Non Power Boat									0
ESSEX									
Diving Gear	250		3,661						3,911
Power Boat	400	16,007,629	143,270	77,602	62,650	825,885	200,477	924,477	18,041,913
Non Power Boat		1,175		1,200					2,375
NANTUCKET									
Diving Gear									0
Power Boat		94,300			18,000				112,300
Non Power Boat									0
NORFOLK									
Diving Gear			2,143						2,143
Power Boat		2,029,952	39,000	6,200	1,000	60,000			2,136,152
Non Power Boat		100							100
PLYMOUTH									
Diving Gear	4,550		6,959						11,509
Power Boat	21,200	8,678,242	204,500	71,140	394,390	175,077	1,025,000	1,025,000	10,569,549
Non Power Boat		1,225		213					1,438
SUFFOLK									
Diving Gear	5,000		40						5,040
Power Boat	25,000	4,042,315	50,000	12,330	12,000	139,954	260,000	616,454	4,898,053
Non Power Boat									0
STATE TOTAL									
Diving Gear	13,800		25,465						39,265
Power Boat	73,900	36,306,575	542,920	202,897	1,320,790	1,558,293	4,795,000	8,193,195	48,198,570
Non Power Boat	0	2,500	0	1,413	0	0	0	0	3,913
OUT OF STATE									
Diving Gear									0
Power Boat		40,000			80,077		800,000	48,577	1,081,154
Non Power Boat									0

Table 6. 1987 Massachusetts Commercial Lobster Fishery Statistics -- Number of Fishermen  
(Except Seasonal) and Landings by Homeport, Inside and Outside 69°W 41°N

-- TOWN --	NUMBER FISHERMEN	RANK (FISHERMEN)	POUNDS INSIDE	POUNDS OUTSIDE	POUNDS TOTAL	PERCENT OF TOTAL	RANK (TOTAL LBS.)
BARNSTABLE-YARMOUTH	6	33	212,712	161,279	373,991	2.80	16
BEVERLY	53	9	812,871		812,871	6.08	3
BOSTON	129	2	1,373,558	121,033	1,494,591	11.18	1
BOURNE	13	28	44,523		44,523	0.33	36
CHATHAM	22	22	121,499	20,607	142,106	1.06	23
CHILMARK-GAY HEAD	18	24	125,750	8,833	134,583	1.01	24
COHASSET	47	11	594,089		594,089	4.44	6
DANVERS	17	25	61,142		61,142	0.46	32
DARTMOUTH	11	30	25,368		25,368	0.19	41
DENNIS-BREWSTER	17	25	33,813		33,813	0.25	40
DUXBURY	6	33	34,127	240	34,367	0.26	39
ESSEX	8	32	12,883		12,883	0.10	45
FAIRHAVEN	34	18	76,209	383,365	459,574	3.44	12
FALMOUTH	16	26	10,639		10,639	0.08	46
FREETOWN-SWANSEA	3	34			0	0.00	50
GLOUCESTER	245	1	1,081,938	161,144	1,243,081	9.30	2
GOSNOLD	3	34	7,774		7,774	0.06	48
HARWICH	3	34	35,632	74,220	109,852	0.82	27
HINGHAM	28	19	471,152		471,152	3.52	11
HULL	43	12	339,587		339,587	2.54	17
IPSWICH	25	20	39,260		39,260	0.29	38
KINGSTON	8	32	17,888		17,888	0.13	42
LYNN	18	24	336,408		336,408	2.52	18
MANCHESTER	39	15	239,904		239,904	1.79	21
MARBLEHEAD	62	8	450,409	3,715	454,124	3.40	13
MARSHFIELD	86	4	581,538		581,538	4.35	7
MATTAPOISETT	12	29	64,483		64,483	0.48	31
NAHANT	42	13	480,399		480,399	3.59	10
NANTUCKET	6	33	45,463	124	45,587	0.34	35
NEW BEDFORD	75	5	220,577	97,037	317,614	2.38	20
NEWBURYPORT-NEWBURY	19	23	59,265		59,265	0.44	33
ORLEANS-EASTHAM	23	21	100,184	1,771	101,955	0.76	28
PLYMOUTH	118	3	593,728	155,012	748,740	5.60	4
PROVINCETOWN	37	16	123,216	2,326	125,542	0.94	26
QUINCY	18	24	45,698		45,698	0.34	34
REVERE	8	32	131,749		131,749	0.99	25
ROCKPORT	65	7	317,947	1,151	319,098	2.39	19
ROWLEY	3	34	2,705		2,705	0.02	49
SALEM	15	27	67,807		67,807	0.51	30
SALISBURY	6	33	8,809		8,809	0.07	47
SANDWICH	36	17	214,582	395,941	610,523	4.57	5
SAUGUS-MEDFORD	52	10	501,586		501,586	3.75	9
SCITUATE	71	6	372,840	2,824	375,664	2.81	15
SWAMPSCOTT	40	14	418,522		418,522	3.13	14
TISBURY-OAK BLUFFS- EDGARTOWN	10	31	14,012		14,012	0.10	44
TRURO-WELLFLEET	10	31	17,429		17,429	0.13	43
WAREHAM-MARION	10	31	43,106		43,106	0.32	37
WESTPORT-FALL RIVER	39	15	263,720	283,566	547,286	4.09	8
WEYMOUTH	10	31	86,001		86,001	0.64	29
WINTHROP	28	19	160,600		160,600	1.20	22
STATEWIDE TOTAL	1,713		11,495,097	1,874,188	13,369,285		
OUT OF STATE	12		17,656	158,478	176,134		

Table 7. Massachusetts Commercial Lobster Fishery  
Selected Landings (Lbs.) and Effort Statistics, 1983 - 1987

	1983	1984	1985	1986	1987	% Change 1983-87
Total Landings	12,136,607	12,259,311	14,203,083	14,690,452	13,384,566	10.28
Percent Change		1.01	15.86	3.43	-8.89	
Total Traps Fished	350,567	386,764	404,662	427,819	459,360	31.03
Percent Change		10.33	4.63	5.72	7.37	
Inshore Landings	10,356,607	10,088,499	12,399,745	12,918,388	11,510,379	11.14
Percent Change		-2.59	22.91	4.18	-10.90	
Fixed Gear Landings	10,198,771	9,869,820	12,199,353	12,580,793	11,243,043	10.24
Percent Change		-3.23	23.60	3.13	-10.63	
Inshore Traps Fished	334,867	354,888	375,172	399,808	427,018	27.52
Percent Change		5.98	5.72	6.57	6.81	
Mobile Gear Landings	143,582	207,993	178,789	306,035	241,986	68.54
Percent Change		44.86	-14.04	71.17	-20.93	
Offshore Landings	1,780,000	2,170,812	1,803,338	1,772,064	1,874,187	5.29
Percent Change		21.96	-16.93	-1.73	5.76	
Fixed Gear Landings	1,648,983	2,042,943	1,747,258	1,578,679	1,686,856	2.30
Percent Change		23.89	-14.47	-9.65	6.85	
Offshore Traps Fished	15,700	31,876	29,490	28,011	32,342	106.00
Percent Change		103.03	-7.49	-5.02	15.46	
Mobile Gear Landings	131,017	127,869	56,080	193,385	187,331	42.98
Percent Change		-2.40	-56.14	244.84	-3.13	
Territorial Landings	8,654,914	8,019,727	10,303,792	10,634,231	9,371,224	8.28
Percent Change		-7.34	28.48	3.21	-11.88	
Average Value (\$) / Pound	2.44	2.61	2.47	2.51	3.03	24.06
Percent Change		6.97	-5.36	1.62	20.60	
Total Value	\$29,613,321	\$31,996,802	\$35,081,615	\$36,873,035	\$40,515,081	36.81
Percent Change		8.05	9.64	5.11	9.88	
Inshore Value	\$25,270,121	\$26,330,982	\$30,627,370	\$32,425,154	\$34,841,917	37.88
Percent Change		4.20	16.32	5.87	7.45	
Ave. Lbs. / Trap-Haul	0.582	0.505	0.649	0.6907	0.6304	8.32
Percent Change		-13.23	28.51	6.43	-8.73	
Ave. Lbs. / Trap	33.80	30.80	34.46	33.10	28.15	-16.71
Percent Change		-8.86	11.89	-3.97	-14.95	



Figure 1. 1987 Massachusetts Commercial Lobster Fishery  
Total Monthly Inshore Harvest by License Type

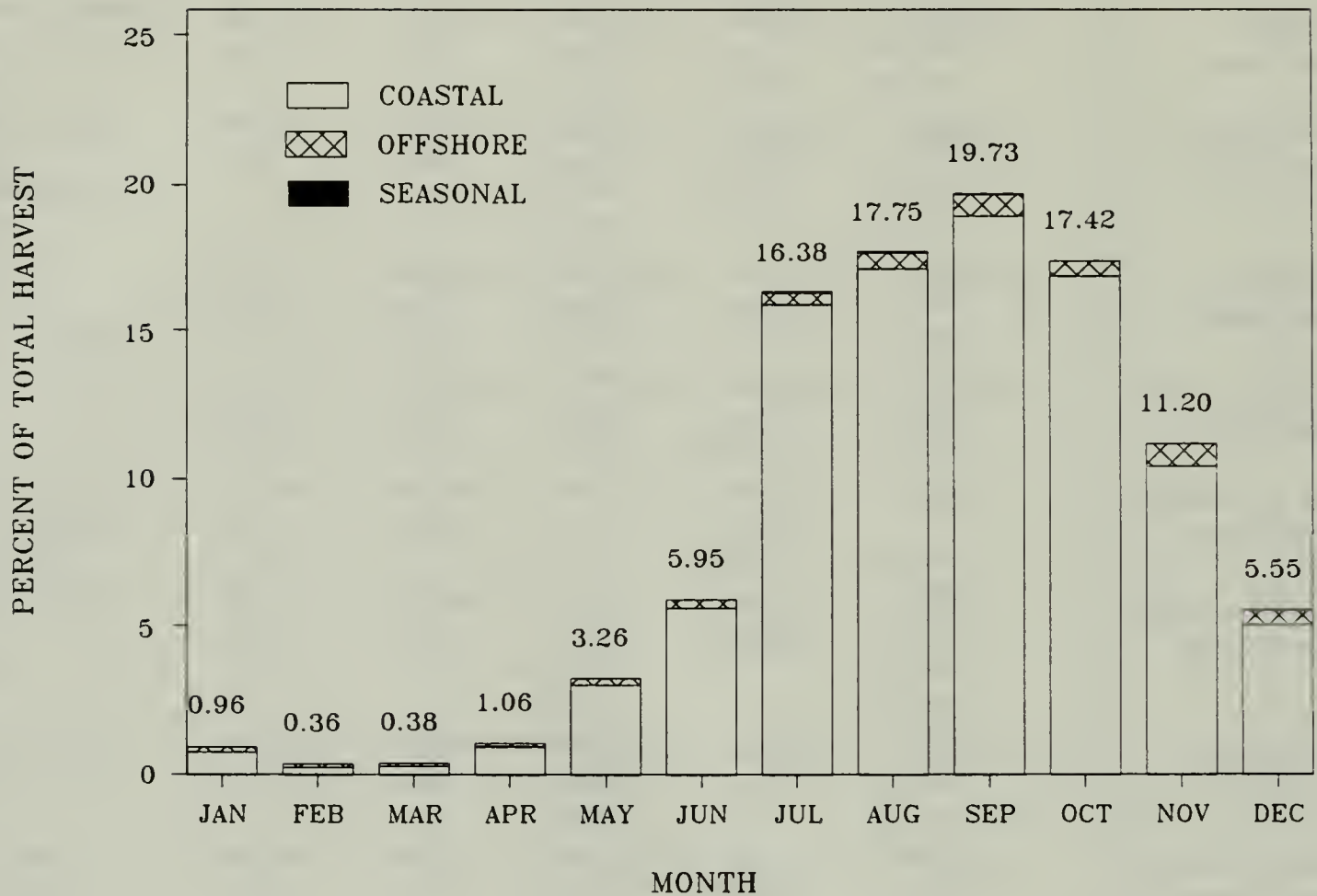


Figure 2. 1987 Massachusetts Commercial Lobster Fishery  
Percent Monthly Inshore Harvest for Each License Type

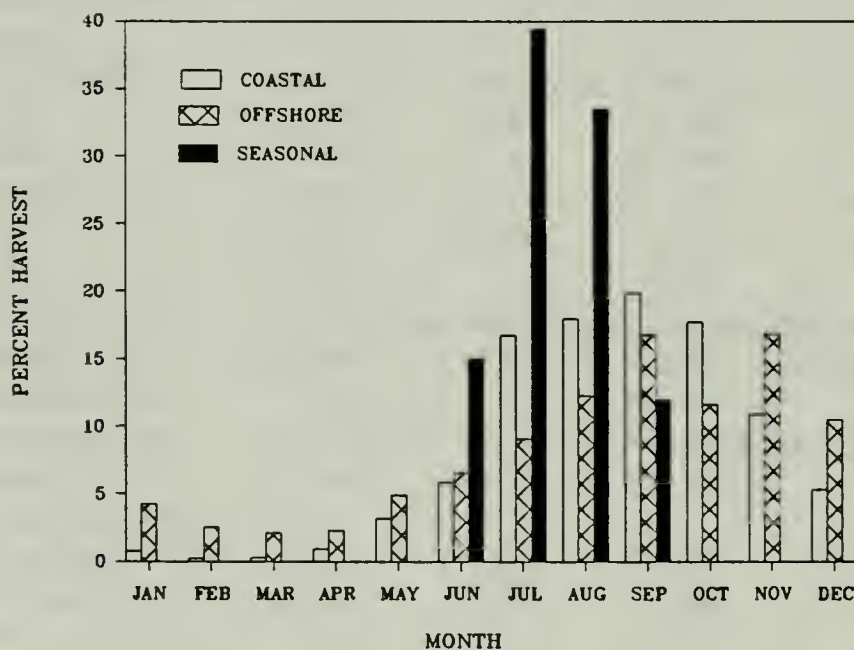


Table 8. 1987 Massachusetts Commercial Lobster  
Fishery, Percent Monthly Inshore  
Harvest for Each License Type

Month	Coastal	Offshore	Seasonal
January	0.80	4.27	
February	0.26	2.55	
March	0.29	2.14	
April	1.00	2.34	
May	3.19	4.93	
June	5.90	6.58	15.04
July	16.70	9.09	39.46
August	17.99	12.26	33.53
September	19.88	16.84	11.97
October	17.73	11.61	
November	10.94	16.86	
December	5.32	10.53	
Total	100.0	100.0	100.0



Figure 3. 1987 Massachusetts Commercial Lobster Fishery  
Total Inshore Harvest by Area Fished and License Type

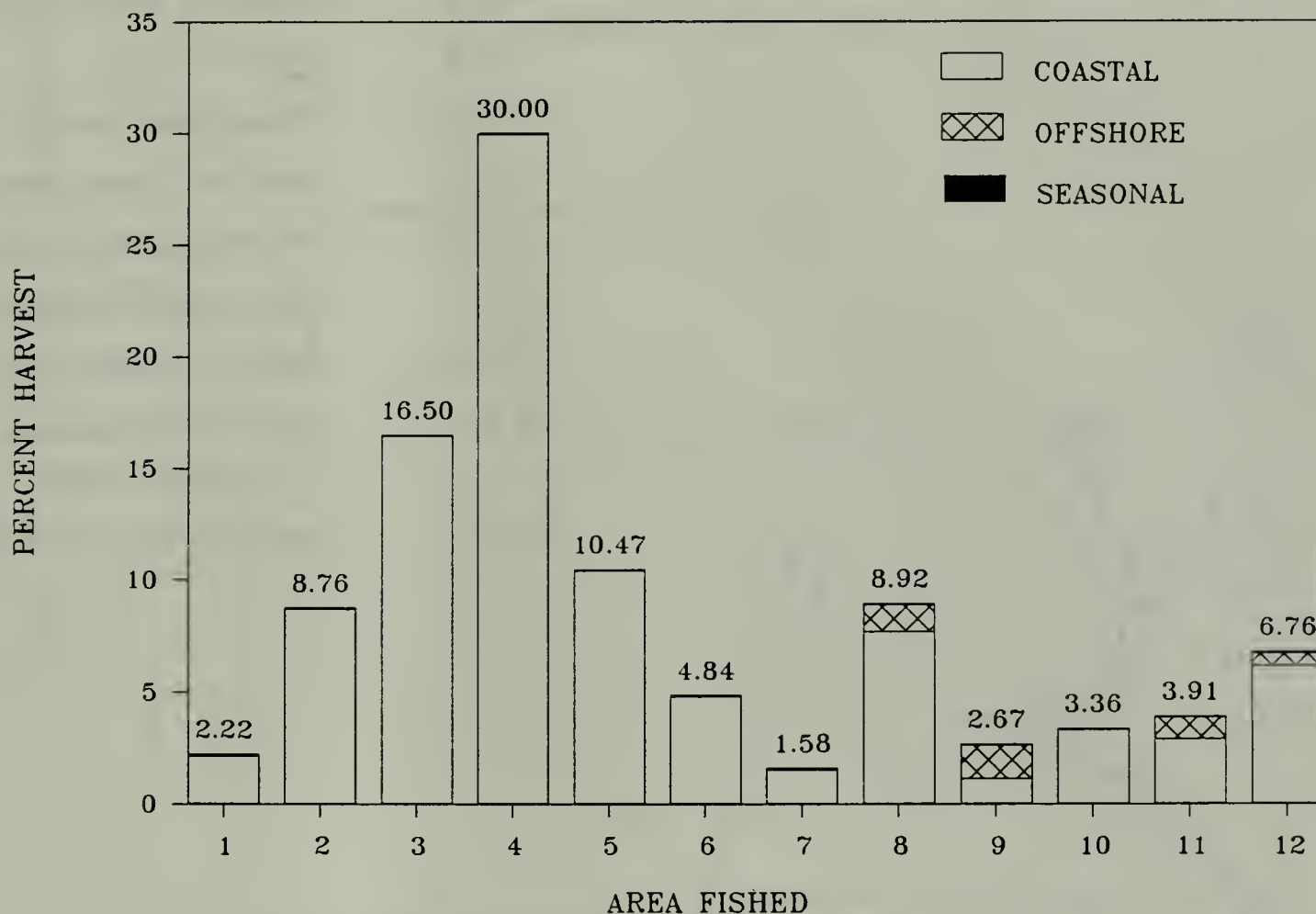


Figure 4. 1987 Massachusetts Commercial Lobster Fishery  
Percent Inshore Harvest by Area Fished for Each License Type

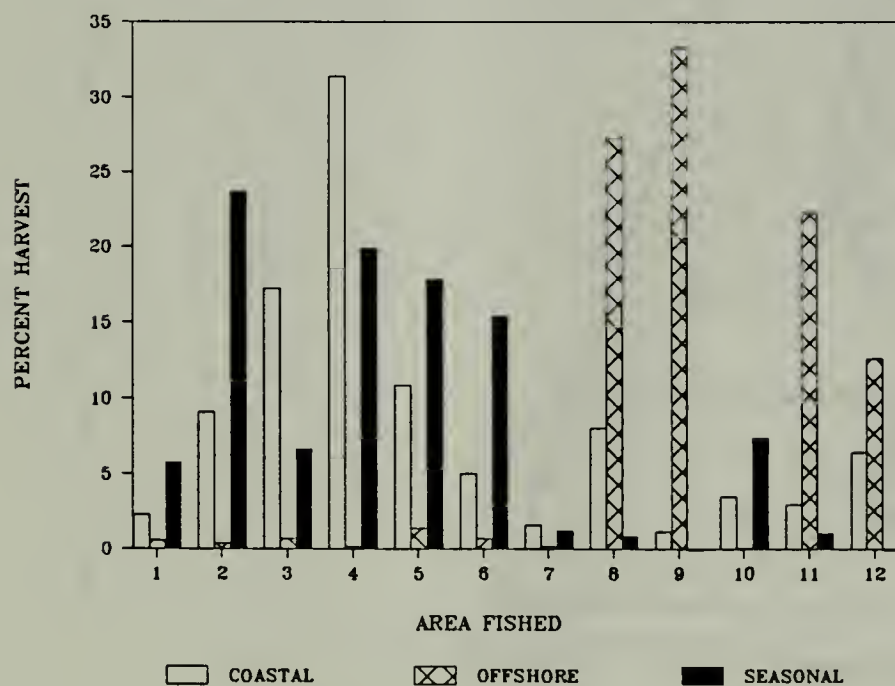


Table 9. 1987 Massachusetts Commercial Lobster Fishery; Percent Inshore Harvest by Area Fished for Each License Type

Area Fished	Coastal	Offshore	Seasonal
1	2.29	0.63	5.80
2	9.14	0.41	23.72
3	17.27	0.72	6.69
4	31.45	0.18	19.90
5	10.89	1.44	17.83
6	5.03	0.73	15.41
7	1.65	0.19	1.24
8	8.05	27.36	0.90
9	1.20	33.31	0.00
10	3.52	0.09	7.43
11	3.03	22.29	1.09
12	6.49	12.66	0.00
Total	100.0	100.0	100.0

# Lobstering Areas

Between  
Areas

Boundaries

1 & 2	Castle Neck, Ipswich
2 & 3	Goldsmith Point, Manchester
3 & 4	Red Rock, Lynn
4 & 5	Tobias Ledge (Spindle), Scituate
5 & 6	High Pines Ledge, Plymouth
6 & 7	Scussett Beach, Sandwich
7 & 8	Griffin Island, Wellfleet
8 & 9	Harwich/Chatham Line
9 & 10	Waquoit Bay, Falmouth - Cape Poge, N. - Muskeget Island
10 & 11	Mass./R.I. Line - Gay Head

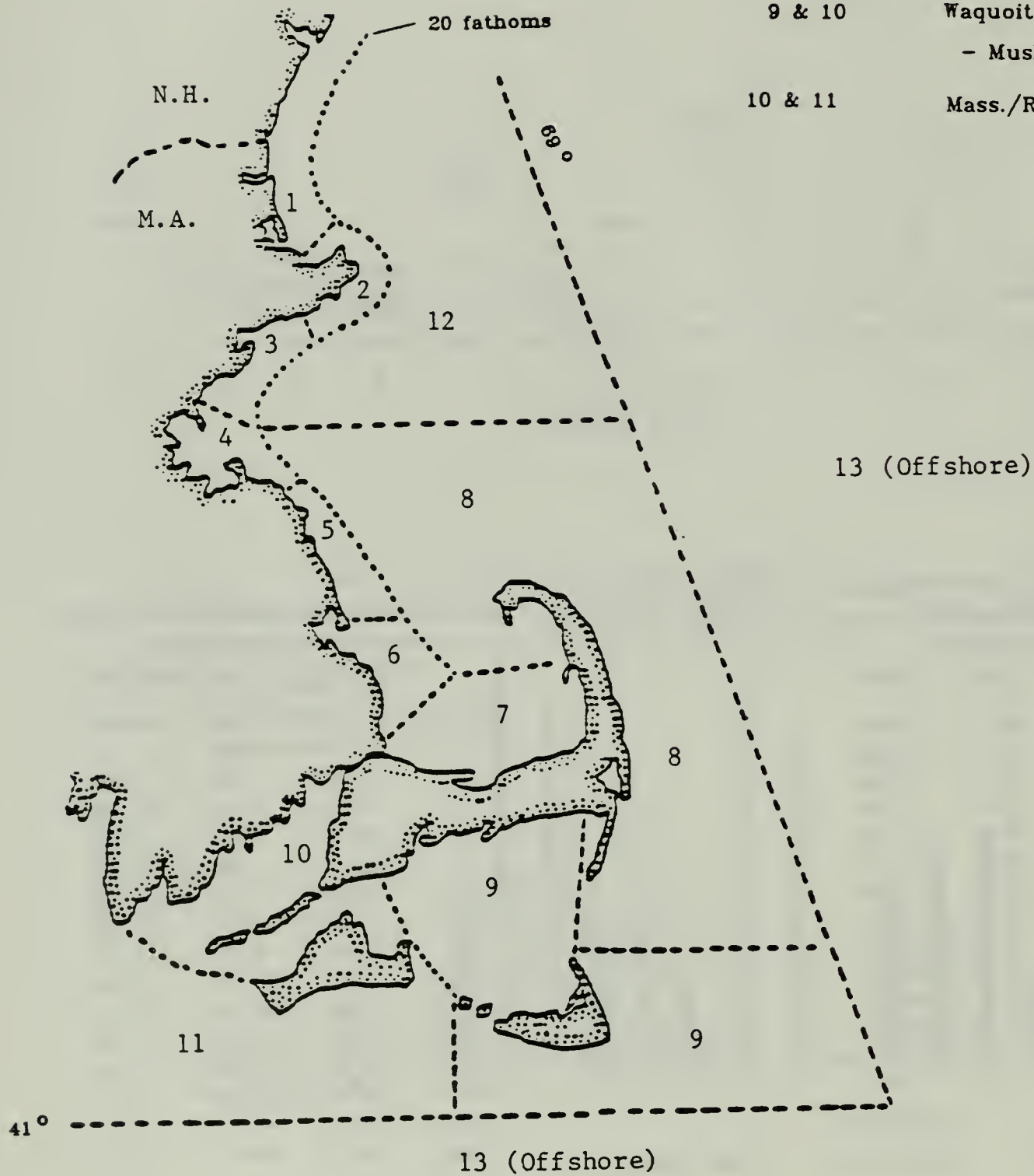


Figure 5. Location and Description of Coastal Lobster Fishing Areas in Massachusetts

Figure 6. 1987 Massachusetts Commercial Lobster Fishery  
Catch Per Unit of Effort For All License Types by Area Fished

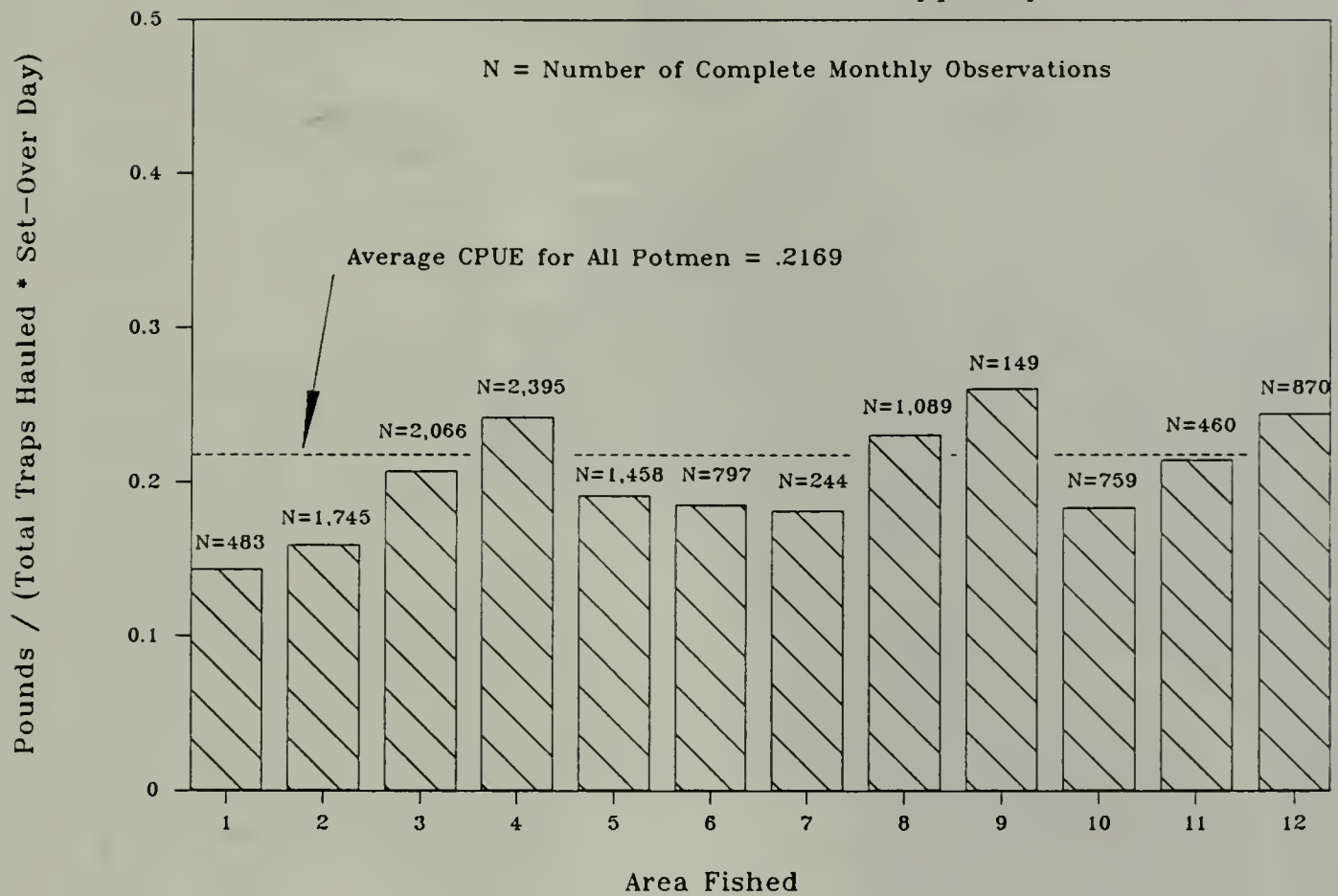


Figure 7. 1987 Massachusetts Commercial Lobster Fishery  
Catch Per Unit of Effort for Both Coastal and All Potmen by Month

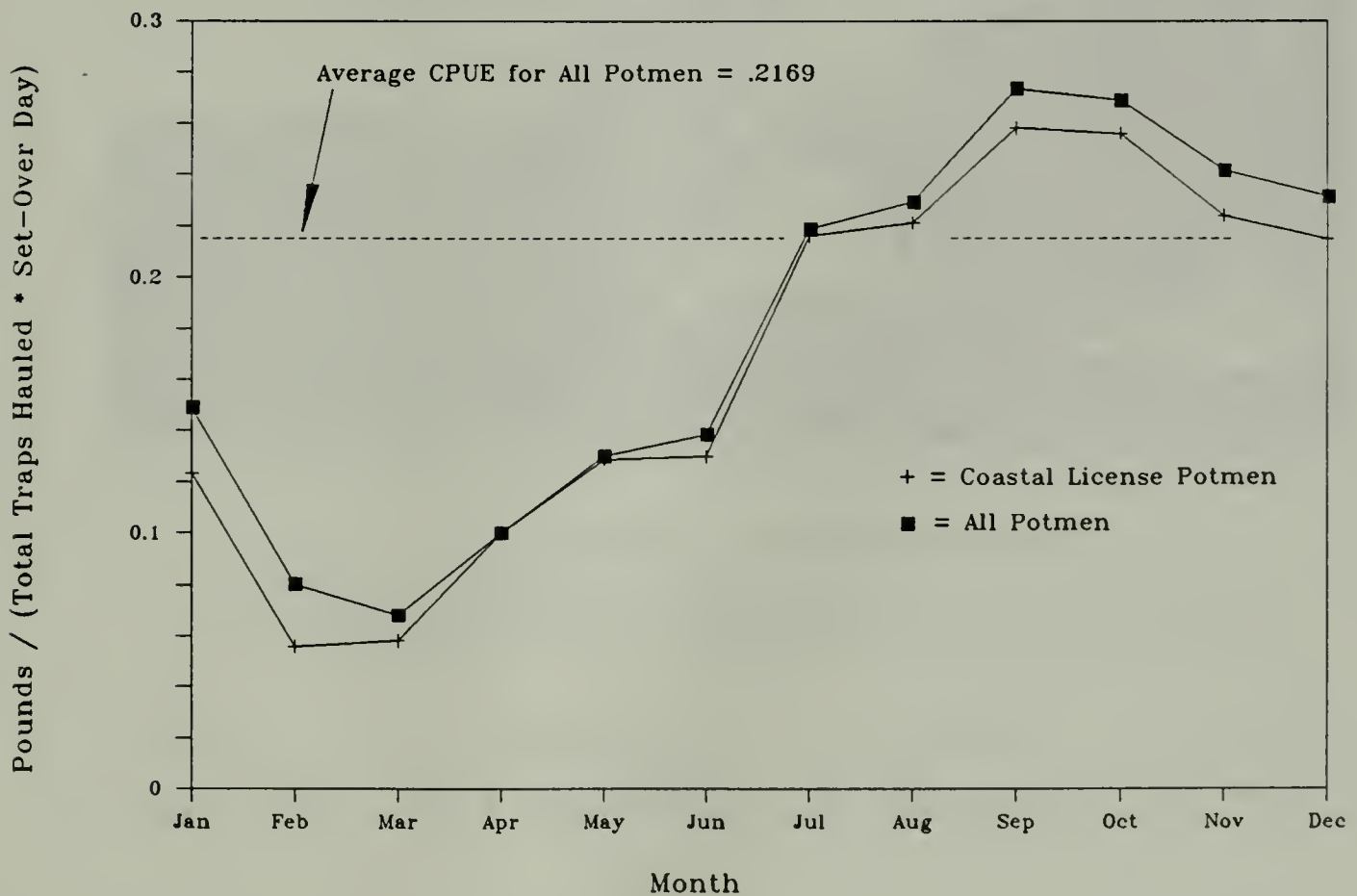


Figure 8. 1987 Massachusetts Commercial Lobster Fishery; CPUE by Set-Over Day for Coastal and All Potmen

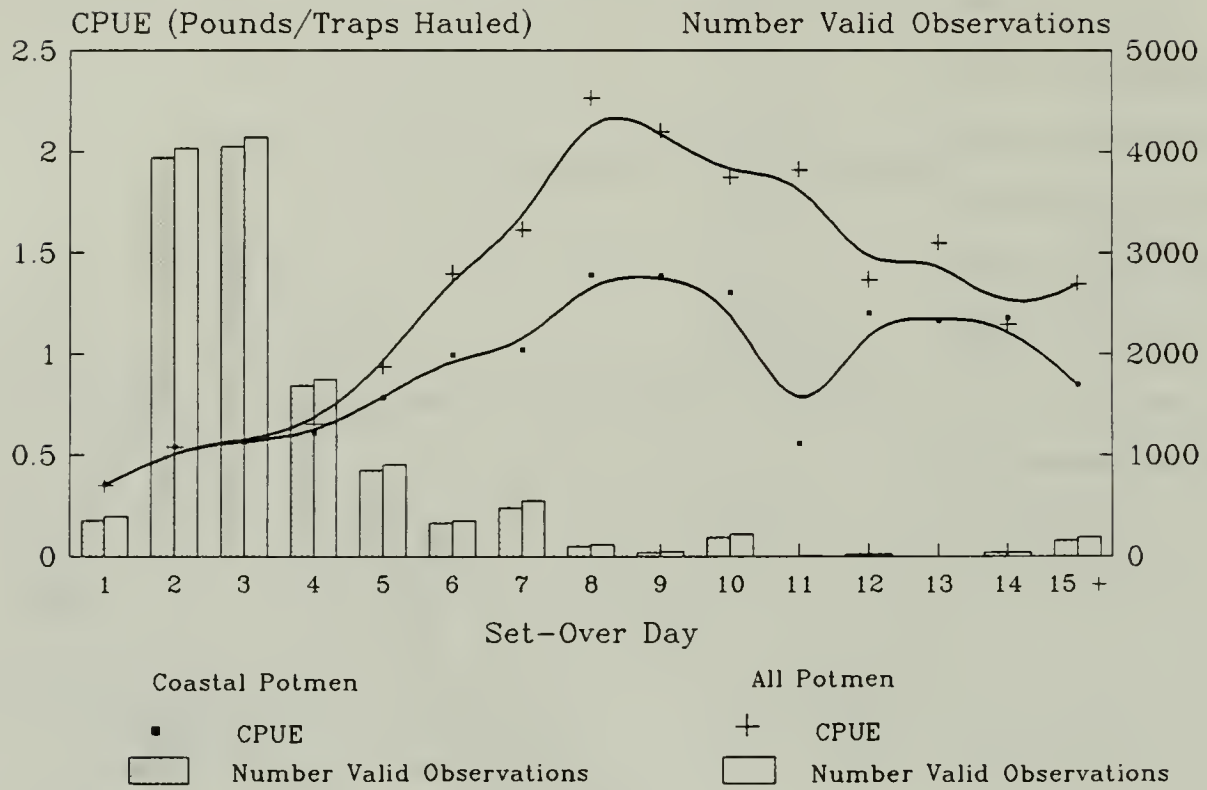






Figure 9. Coastal Map of Massachusetts  
Showing Statistical Reporting Areas (Counties)

- |            |             |               |              |
|------------|-------------|---------------|--------------|
| 1. Essex   | 3. Norfolk  | 5. Bristol    | 7. Dukes     |
| 2. Suffolk | 4. Plymouth | 6. Barnstable | 8. Nantucket |











